

**What is Claimed is:**

1. A special reproduction data generating device,  
comprising:

input means of inputting an MPEG transport stream;

special reproduction data generating means of directly  
generating special reproduction data by selecting a transport  
packet including data of a predetermined kind of frame from  
transport packets of the MPEG transport stream, without  
converting the inputted MPEG transport stream to an ES  
(elementary stream) or PES (packetized elementary stream);  
and

output means of outputting the special reproduction data  
as an MPEG transport stream.

2. The special reproduction data generating device  
according to claim 1, wherein the special reproduction data  
generating means adds Presentation Time Stamp (PTS), which  
is used for special reproduction, to the selected transport  
packet, and corrects a mismatching MPEG format so as to generate  
the special reproduction data.

3. The special reproduction data generating device  
according to claim 2, wherein the special reproduction data  
generating means also adds Decoding Time Stamp (DTS) to the  
selected transport packet.

4. The special reproduction data generating device  
according to claim 2 or 3, wherein said special reproduction

data generating means sets a Broken\_link bit for the selected transport packet.

5. The special reproduction data generating device according to any one of claims 2 to 4, wherein the correction of the mismatching MPEG format means that if the selected transport packet includes data unnecessary or useless for special reproduction, the data is defined as a padding byte and made dummy data.

6. The special reproduction data generating device according to claim 5, wherein the unnecessary or useless data is at least one of data of a frame other than the predetermined kind of frame, and DIT, PCR, PSI, DSM flag, PTS, DTS, and data of an AC coefficient of a macro block that are added to the inputted MPEG transport stream.

7. The special reproduction data generating device according to any one of claims 2 to 6, wherein the correction of the mismatching MPEG format means that in the case where the data necessary for special reproduction is not added to the selected transport packet, another transport packet is inserted before or after the selected transport packet, and the necessary data is stored in the selected transport packet or the additionally inserted transport packet, and

if the necessary data is stored in the selected transport packet, the additionally inserted transport packet stores

data which cannot be stored in the selected transport packet since the selected transport packet stores the necessary data.

8. The special reproduction data generating device according to any one of claims 2 to 7, wherein the correction of the mismatching MPEG format means that if the data necessary for special reproduction is added to the selected transport packet but a value thereof is incompatible, the value is corrected.

9. The special reproduction data generating device according to claim 7 or 8, wherein the necessary data is at least one of PCR, PSI, a DSM flag, PTS, DTS, a sequence header code, a sequence end code, a GOP header, a Broken\_link bit that are provide for the special reproduction.

10. The special reproduction data generating device according to any one of claims 1 to 9, wherein the predetermined frame is an I picture.

11. The special reproduction data generating device according to any one of claims 1 to 9, wherein the predetermined frame is at least one picture selected from an I picture, a P picture, and a B picture.

12. A medium storing a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to 11, the medium being processible by a computer.

13. An information aggregate comprising a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to 11.

14. A transmitting medium for transmitting an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 11.

15. A recording medium for recording an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 11.